

ABSTRACT

With a micro nozzle in which the fluid discharge head has a nozzle with a micro hole having a diameter of 0.01 μm to 25 μm , the drive voltage during discharging operation is reduced. Further, by disposing an electrode section for applying a drive voltage to a discharge fluid on an external wall of a nozzle section, a distance between the electrode section and the nozzle hole is shortened. With this structure, the subject invention achieves both miniaturization of nozzle and reduction in drive voltage in an electrostatic suction type fluid discharge device. The subject invention also achieves an increase in discharge limit frequency while allowing use of materials with higher resistance for the fluid to be discharged.